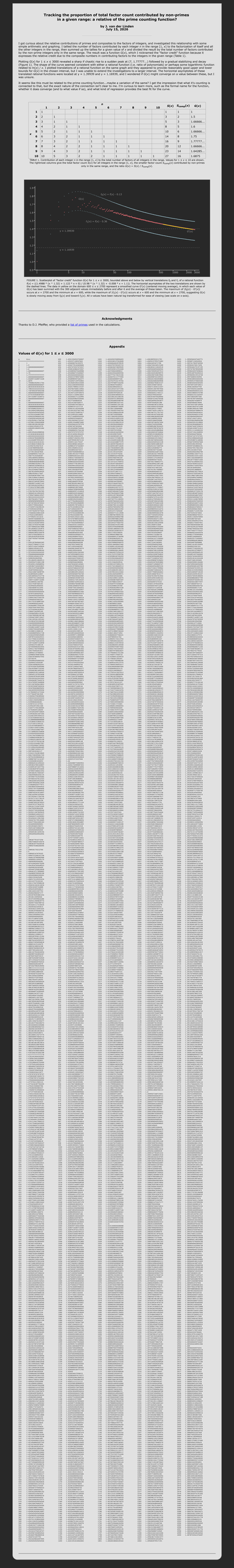

Tracking the proportion of total factor count contributed by non-primes in a given range: a relative of the prime counting function?

by J. van der Linden
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I got curious about the relative contributions of primes and composites to the factors of integers, and investigated this relationship with some simple arithmetic and graphing. I tallied the number of factors contributed by each integer *n* in the range [1, *x*] to the factorization of itself and all the other integers in the range, then summed up the tallies for a given value of *x* and divided the result by the total number of factors contributed by the non-prime integers only in the same range. The result was a function *G*(*x*), which I nicknamed the "factor credit" function because it expresses the relative credit due to the composite numbers in contributing factors to the integers in the given range (Table 1).

Plotting *G*(*x*) for 1 ≤ *x* ≤ 3000 revealed a sharp if chaotic rise to a sudden peak at (7, 1.77777...) followed by a gradual stabilizing and decay (Figure 1). The shape of the curve seemed consistent with either a rational function (i.e. ratio of polynomials) or perhaps some logarithmic function related to ln(*x*) / *x*. I plotted translations of a rational function on the same graph and they appeared to provide reasonably good upper and lower bounds for *G*(*x*) in the chosen interval, but I was unable to extend the investigations to a larger interval. The horizontal asymptotes of these translated rational functions were located at y ≈ 1.39939 and y ≈ 1.16939, and I wondered if *G*(*x*) might converge on a value between these, but I was unsure.

It seems like this must be related to the prime counting function...maybe a variation of the same? I get the impression that what it's counting is connected to that, but the exact nature of the connection isn't clear to me. I'm curious to learn more, such as the formal name for the function, whether it does converge (and to what value if so), and what kind of regression provides the best fit for the curve.

x		**n**												
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	***S*(*x*)**	***S*comp(*x*)**	***G*(*x*)**
	1	1										1	1	1
	2	2	1									3	2	1.5
	3	3	1	1								5	3	1.66666...
	4	4	2	1	1							8	5	1.6
	5	5	2	1	1	1						10	6	1.66666...
	6	6	3	2	1	1	1					14	8	1.75
	7	7	3	2	1	1	1	1				16	9	1.77777...
	8	8	4	2	2	1	1	1	1			20	12	1.66666...
	9	9	4	3	2	1	1	1	1	1		23	14	1.64285...
	10	10	5	3	2	2	1	1	1	1	1	27	16	1.6875

TABLE 1. Contribution of each integer *n* in the range [1, *x*] to the total number of factors of all integers in the range. Values for 1 ≤ *x* ≤ 10 are shown. The rightmost columns give the total factor count *S*(*x*) for all integers in the range [1, *x*], the smaller factor count $S_{\text{comp}}(x)$ contributed by non-primes only in the same range, and the ratio $G(x) = S(x) / S_{\text{comp}}(x)$.

FIGURE 1. Scatterplot of "factor credit" function *G*(*x*) for 1 ≤ *x* ≤ 3000, bounded above and below by vertical translations f_0 and f_1 of a rational function *f*(*x*) = ((1.4988 * (x ^ 1.32) + 1.122 * x + 0) / (0.98 * (x ^ 1.32) + -0.008 * x + 1.1)). The horizontal asymptotes of the two translations are shown by the dashed lines. The data in yellow on the domain 600 ≤ x ≤ 2700 represent a smoothed curve *G'*(*x*) (centered moving average), in which each value of *G*(*x*) has been summed with the 300 adjacent values immediately before and after it and the average of these taken. The maximum of $|f_0(x) - G'(x)|$ occurs at *x* = 2700 and the minimum at *x* = 600, while the maximum of $|f_1(x) - G'(x)|$ occurs at *x* = 600 and the minimum at *x* = 2700, suggesting *G*(*x*) is slowly moving away from $f_0(x)$ and toward $f_1(x)$. All x-values have been natural log transformed for ease of viewing (see scale on x-axis).

Acknowledgments

Thanks to D.J. Pfeiffer, who provided a list of primes used in the calculations.

Appendix

Values of *G*(*x*) for 1 ≤ *x* ≤ 3000

```
x       G(x)                  600     1.4521354933726067    1201    1.4222294760894403    1802    1.406380593211701     2403    1.3956566247440771
==========================    601     1.452337136547663     1202    1.4224180127263828    1803    1.4065015795373483    2404    1.395687134502924
1       1                     602     1.452608376193975     1203    1.4226064263578535    1804    1.40643453471798      2405    1.3957617829740592
2       1.5                   603     1.4526779163609684    1204    1.4224755700325733    1805    1.4064726236515368    2406    1.395836376917458
3       1.6666666666666667    604     1.4527472527472527    1205    1.4226636274829045    1806    1.4063834112624518    2407    1.3959246275197195
4       1.6                   605     1.4528163862472567    1206    1.4225329214761828    1807    1.4065040650406504    2408    1.3957679678949289
5       1.6666666666666667    606     1.4530850675428988    1207    1.422720624085812     1808    1.4063769293257513    2409    1.3958424507658644
6       1.75                  607     1.4532846715328467    1208    1.4226335444065594    1809    1.4063324538258575    2410    1.3959168793292016
7       1.7777777777777777    608     1.4523636363636363    1209    1.4227774172615184    1810    1.4064306724819962    2411    1.3959609215514728
8       1.6666666666666667    609     1.4526315789473685    1210    1.4226470111777094    1811    1.4064908722109533    2412    1.395746850192994
9       1.6428571428571428    610     1.4528985507246377    1211    1.422834008097166     1812    1.4064241564494884    2413    1.3958348503604456
10      1.6875                611     1.4532947139753802    1212    1.4227037516170764    1813    1.4064620682669908    2414    1.3959091570825448
11      1.7058823529411764    612     1.4519265394310408    1213    1.4227970897332256    1814    1.4065822784810127    2415    1.3958545454545455
12      1.6666666666666667    613     1.4521238300935926    1214    1.422983675448521     1815    1.406515580736544     2416    1.3957697339729611
13      1.6818181818181819    614     1.4525179856115107    1215    1.422623850250121     1816    1.4064711830131447    2417    1.395813649247765
14      1.7083333333333333    615     1.4527827648114902    1216    1.4221291673377356    1817    1.4065911847957946    2418    1.3957592041246096
15      1.7307692307692308    616     1.4517512508934953    1217    1.4222222222222223    1818    1.4065245934754065    2419    1.3958469469251433
16      1.6666666666666667    617     1.4519471239728474    1218    1.422050787528126     1819    1.4066444511764111    2420    1.3956338845372789
17      1.6774193548387097    618     1.4522111269614837    1219    1.4222365038560412    1820    1.406227955255467     2421    1.3956641531322507
18      1.6571428571428573    619     1.4524064171122995    1220    1.4221081341248194    1821    1.4063476070528966    2422    1.395738203957382
19      1.6666666666666667    620     1.4520255863539446    1221    1.4222507213850593    1822    1.4064672106376548    2423    1.3957819973909262
20      1.65                  621     1.45177304964539      1222    1.4223930802498799    1823    1.4065269943593877    2424    1.395626674389979
21      1.6666666666666667    622     1.452161587526577     1223    1.4224855861627161    1824    1.405970449291386     2425    1.395656894679696
22      1.6818181818181819    623     1.4525495750708215    1224    1.4215482841181166    1825    1.4060082387219934    2426    1.3957443728739958
23      1.6888888888888889    624     1.450897571277719     1225    1.4213966836734695    1826    1.4061056437035548    2427    1.3958318257471598
24      1.6470588235294117    625     1.4506151142355008    1226    1.421581128466688     1827    1.406039931774857     2428    1.3958619691817984
25      1.6415094339622642    626     1.4510010537407798    1227    1.4217654557042703    1828    1.4060776251128273    2429    1.3959493670886076
26      1.6545454545454545    627     1.4512622720897617    1228    1.4218152866242038    1829    1.4061967311741703    2430    1.3955655062834031
27      1.6379310344827587    628     1.451330532212885     1229    1.421907339595606     1830    1.4061091637456185    2431    1.3956393040213704
28      1.6290322580645162    629     1.4517144856543036    1230    1.4217384395359924    1831    1.4061686360905268    2432    1.3953840605842047
29      1.6349206349206349    630     1.449965253648367     1231    1.4218303145853193    1832    1.406124899919936     2433    1.395471262710031
30      1.6323529411764706    631     1.4501563042723167    1232    1.4211693867849786    1833    1.406221866559968     2434    1.3955584396856298
31      1.6376811594202898    632     1.4499133448873482    1233    1.4212193190815519    1834    1.4063187362527494    2435    1.3956455915218802
32      1.6081081081081081    633     1.4502944232767578    1234    1.4214025645084691    1835    1.406437425029988     2436    1.3953639046864876
33      1.618421052631579     634     1.45067497403946      1235    1.421543815248339     1836    1.4058852867830425    2437    1.3954074287359632
34      1.6282051282051282    635     1.4510549982704946    1236    1.421418417311641     1837    1.4060037897676274    2438    1.3954810390731813
35      1.6375                636     1.4506896551724138    1237    1.42150979153506      1838    1.4061222454880846    2439    1.3955111143083232
36      1.6091954022988506    637     1.4507575757575757    1238    1.4216924534259552    1839    1.4062406539726846    2440    1.3953571941928993
37      1.6136363636363635    638     1.4510140941904435    1239    1.42183309670295      1840    1.4058519108280254    2441    1.395400646784046
38      1.6222222222222222    639     1.451081359423275     1240    1.421442065491184     1841    1.4059701492537313    2442    1.3953471673727291
39      1.6304347826086956    640     1.4496071062521354    1241    1.4216241737488196    1842    1.4060666335156637    2443    1.3954339866465648
40      1.6122448979591837    641     1.4497950819672132    1242    1.4212344903408198    1843    1.4061847469424282    2444    1.3953938872148084
41      1.6161616161616161    642     1.450051142175247     1243    1.4214162348877375    1844    1.4062220455223138    2445    1.3954672595567668
42      1.6153846153846154    643     1.4502385821404227    1244    1.4214655578220619    1845    1.4061569016881827    2446    1.395553961993546
43      1.619047619047619     644     1.4498810737342847    1245    1.4216055189714645    1846    1.4062531017369726    2447    1.3955973038864191
44      1.614678899082569     645     1.450135685210312     1246    1.4217452608491306    1847    1.406312028582771     2448    1.3950475917841552
45      1.6106194690265487    646     1.450389434473417     1247    1.4219263899765073    1848    1.405581947743468     2449    1.395134168157424
46      1.617391304347826     647     1.4505754908598512    1248    1.421011551670309     1849    1.4056006332871562    2450    1.3949249463902789
47      1.6206896551724137    648     1.4485195154777928    1249    1.421101919775246     1850    1.4055363321799308    2451    1.3949982136477312
48      1.596774193548387     649     1.4488903833221252    1250    1.4208885424785658    1851    1.4056538499555205    2452    1.3950282163011645
49      1.5952380952380953    650     1.4485417365068722    1251    1.420937840785169     1852    1.4056911372394032    2453    1.3951146346689522
50      1.5923076923076922    651     1.4487951807228916    1252    1.4209870776895532    1853    1.405808554776252     2454    1.3951877766671426
51      1.5984848484848484    652     1.4488636363636365    1253    1.4211673151750972    1854    1.4057441768653771    2455    1.3952741290691033
52      1.5955882352941178    653     1.4490477781490143    1254    1.4210035730930557    1855    1.4058399921081188    2456    1.3952476095333237
53      1.5985401459854014    654     1.4492995330220146    1255    1.4211834135735362    1856    1.4055571977534733    2457    1.3950951735937833
54      1.5874125874125875    655     1.4496666666666667    1256    1.4211016291698992    1857    1.405674317801202     2458    1.39518140993656
55      1.5931034482758621    656     1.4491356382978724    1257    1.4212812160694897    1858    1.4057913917068847    2459    1.395224518888097
56      1.5827814569536425    657     1.449203187250996     1258    1.421419714817111     1859    1.405828492665157     2460    1.3949466192170819
57      1.588235294117647     658     1.4494530991050714    1259    1.421509375484271     1860    1.4054239952834824    2461    1.3950327355536578
58      1.5935483870967742    659     1.449635520212061     1260    1.4200462606013877    1861    1.4054824130477501    2462    1.3951188273801054
59      1.5961538461538463    660     1.4479921000658327    1261    1.4202250655156468    1862    1.4054186708550114    2463    1.3952048947068867
60      1.5818181818181818    661     1.4481737413622902    1262    1.4204037602095854    1863    1.4052967140755273    2464    1.3948284435604177
61      1.5843373493975903    662     1.448536665570536     1263    1.420582344785087     1864    1.405254386824821     2465    1.3949012924300526
62      1.5892857142857142    663     1.4487852921864741    1264    1.4203723649792275    1865    1.4053709693227483    2466    1.3948619686324604
63      1.5872093023255813    664     1.4485583224115335    1265    1.420510455104551     1866    1.405466300940439     2467    1.3949049105875675
64      1.5730337078651686    665     1.448806018972849     1266    1.4206483330772777    1867    1.4055245371730827    2468    1.3949347332576618
65      1.5777777777777777    666     1.4484670580560992    1267    1.4208262939640608    1868    1.4055615392147263    2469    1.3950205702936587
66      1.5783783783783785    667     1.4488265971316818    1268    1.4208749040675364    1869    1.4056566842826386    2470    1.3949681077250178
67      1.5806451612903225    668     1.4488932291666667    1269    1.4207943566937586    1870    1.4055718475073313    2471    1.3950538548752835
68      1.5789473684210527    669     1.4492517891997398    1270    1.4209316579834508    1871    1.4056299481966572    2472    1.3949026548672567
69      1.5833333333333333    670     1.4494965898018837    1271    1.421109068627451     1872    1.4048547475141353    2473    1.3949454905847374
70      1.583756345177665     671     1.4498539435248297    1272    1.4207307751108393    1873    1.4049127595282191    2474    1.3950311438278595
71      1.5858585858585859    672     1.4477756286266925    1273    1.4209078404401652    1874    1.4050287496345386    2475    1.3948242947040939
72      1.5673076923076923    673     1.4479535932968095    1274    1.4207875457875458    1875    1.4049079754601228    2476    1.3948540326571004
73      1.569377990430622     674     1.4483091787439613    1275    1.4206675811614082    1876    1.4048453006421482    2477    1.3948968052021486
74      1.5734597156398105    675     1.4475120385232745    1276    1.4205479452054794    1877    1.4049032007004572    2478    1.3948446327683617
75      1.572093023255814     676     1.447149263292761     1277    1.4206361284431592    1878    1.4049980552314274    2479    1.394930094619404
76      1.5707762557077625    677     1.447326288824848     1278    1.420516717325228     1879    1.4050559066601847    2480    1.3946681712391564
77      1.5746606334841629    678     1.4475703324808185    1279    1.4206047713113508    1880    1.4048358904641678    2481    1.394753543473662
78      1.575221238938053     679     1.447923322683706     1280    1.4198878278005154    1881    1.4047734549335402    2482    1.3948258846750317
79      1.577092511013216     680     1.4470251352211263    1281    1.4200242350802788    1882    1.404888932001164     2483    1.3949111925570905
80      1.5659574468085107    681     1.4473767885532591    1282    1.4201998788612962    1883    1.4050043642711667    2484    1.39453867267225
81      1.5606694560669456    682     1.4476190476190476    1283    1.4202876608629826    1884    1.4049418604651163    2485    1.3946109469537076
82      1.5643153526970954    683     1.4477943509996827    1284    1.4201693377683702    1885    1.4050363196125908    2486    1.3946831704057951
83      1.5661157024793388    684     1.4466203411244472    1285    1.4203446191051996    1886    1.40513068731849      2487    1.3947683004008158
84      1.5577689243027888    685     1.446969696969697     1286    1.4205197944998489    1887    1.4052249637155299    2488    1.3947423912279469
85      1.5612648221343874    686     1.4467548834278512    1287    1.4204013882601478    1888    1.4050265828902853    2489    1.3948274650361936
86      1.5647058823529412    687     1.4471032745591939    1288    1.4200301204819277    1889    1.4050840904697468    2490    1.3947756477775437
87      1.5680933852140078    688     1.446608040201005     1289    1.420117452190935     1890    1.404376325428957     2491    1.3948606332935478
88      1.5627376425855513    689     1.4469554300062775    1290    1.419960919885766     1891    1.404491133384734     2492    1.3948217793993825
89      1.5643939393939394    690     1.446529080675422     1291    1.4200480913736098    1892    1.404429465575349     2493    1.394851290684624
90      1.5567765567765568    691     1.4467020944045015    1292    1.419930962029116     1893    1.4045441417156062    2494    1.3949232171656967
91      1.56                  692     1.4467686543865126    1293    1.4201050262565642    1894    1.404658773702955     2495    1.3950080628198835
92      1.5591397849462365    693     1.446450809464508     1294    1.4202789860506975    1895    1.404773361562891     2496    1.394526875699888
93      1.5622775800711743    694     1.446795270690728     1295    1.4204136690647482    1896    1.404555940023068     2497    1.3946116165150455
94      1.5653710247349824    695     1.447139303482587     1296    1.4192681105302465    1897    1.4046703824716509    2498    1.39469633361321
95      1.568421052631579     696     1.4462681944874574    1297    1.4193548387096775    1898    1.4047641917202958    2499    1.3946577162436193
96      1.5559322033898304    697     1.44661095636026      1298    1.4194896284136695    1899    1.4048007681228996    2500    1.3944390107586977
97      1.5574324324324325    698     1.4469532941540364    1299    1.4196628375354319    1900    1.4045062320230106    2501    1.3945236099469125
98      1.5566666666666666    699     1.4472952086553323    1300    1.4191723727299792    1901    1.4045633208704822    2502    1.3944851657940662
99      1.555921052631579     700     1.4461538461538461    1301    1.4192588182765293    1902    1.4046569566883864    2503    1.3945274326399553
100     1.54983922829582      701     1.4463242079360197    1302    1.4191056306640915    1903    1.4047710289327457    2504    1.3945018141222438
101     1.5512820512820513    702     1.4454656862745099    1303    1.4191919191919191    1904    1.4043998087039693    2505    1.394573481202483
102     1.5520504731861198    703     1.445805266380894     1304    1.419115464529534     1905    1.4044933078393882    2506    1.3946450983126482
103     1.5534591194968554    704     1.4447834045149481    1305    1.4190010374981474    1906    1.4046071496845727    2507    1.3947295036252092
104     1.5493827160493827    705     1.4450197989643618    1306    1.4191732108460513    1907    1.4046640542865334    2508    1.3944583681425786
105     1.5501519756838906    706     1.4453576864535769    1307    1.4192592592592592    1908    1.4043710631799962    2509    1.3945426701935124
106     1.552870090634441     707     1.4456951627623973    1308    1.4191448439118213    1909    1.4044847328244274    2510    1.3946141535035836
107     1.5542168674698795    708     1.4453883495145632    1309    1.4192785334121822    1910    1.4045779685264663    2511    1.3945336949718339
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237	1.5045146726862302	838	1.4389027431421446	1439	1.4164565361645653	2040	1.401766004415011	2641	1.3925619834710743
238	1.505050505050505	839	1.4390426327599102	1440	1.415036997885835	2041	1.4018716341484947	2642	1.3926416579223504
239	1.5056053811659194	840	1.4369893538004457	1441	1.4151915455746367	2042	1.4019772265866361	2643	1.3927213114754098
240	1.4994499449944994	841	1.437020539470428	1442	1.4153135313531353	2043	1.4020118238771728	2644	1.3927494427691098
241	1.5	842	1.437299035369775	1443	1.4154353562005277	2044	1.4019573267501322	2645	1.3927775593131473
242	1.5	843	1.4375772558714461	1444	1.4153156715434296	2045	1.4020627644569816	2646	1.3924340598206688
243	1.498367791077258	844	1.4376389231909112	1445	1.4153602950862865	2046	1.4019901373723143	2647	1.3924738219895287
244	1.4983748645720476	845	1.4377004687885517	1446	1.415481832543444	2047	1.4020954393379117	2648	1.392450608399843
245	1.4983818770226538	846	1.4374692269817824	1447	1.4155587731999473	2048	1.4017943530653532	2649	1.3925300889586605
246	1.4989270386266094	847	1.4375307427447122	1448	1.4154938839931606	2049	1.4018995690792366	2650	1.3924952605085965
247	1.5	848	1.4371624938635248	1449	1.4153967419863374	2050	1.4018453427065027	2651	1.3925746780835349
248	1.498936170212766	849	1.4374386653581943	1450	1.4152998294187114	2051	1.4019504480759093	2652	1.3923232586983485
249	1.5	850	1.4372093023255814	1451	1.4153765415901338	2052	1.401473296500921	2653	1.3924025846876835
250	1.498945147679325	851	1.4374847076094934	1452	1.414953515778447	2053	1.40152578042792	2654	1.3924818899693272
251	1.4994731296101158	852	1.437255859375	1453	1.41503011259492	2054	1.401612761854676	2655	1.3924471693190712
252	1.4948132780082988	853	1.4373932145472297	1454	1.4151832460732985	2055	1.4016996670755213	2656	1.3923217311954112
253	1.4958592132505175	854	1.4375914188200878	1455	1.4153041203400916	2056	1.4016637478108582	2657	1.3923613374177148
254	1.496900826446281	855	1.437363171977621	1456	1.4147742103889325	2057	1.4016981792717087	2658	1.39242898097472
255	1.4974306269270299	856	1.4372115618168568	1457	1.4149269311064718	2058	1.4015038908804756	2659	1.3924685647273438
256	1.4943934760448523	857	1.4373482272948033	1458	1.4145388223032829	2059	1.4016085322143543	2660	1.3922181013728936
257	1.494908350305499	858	1.437046004842615	1459	1.4146150840171943	2060	1.401554856743536	2661	1.3922971830069613
258	1.4954407294832828	859	1.4371822803195353	1460	1.414519906323185	2061	1.4015892420537897	2662	1.3922741757169799
259	1.4964610717896865	860	1.4369565217391305	1461	1.414672216441207	2062	1.4016937314475293	2663	1.3923136948888022
260	1.4949899799599198	861	1.4371531966224367	1462	1.4147926686598207	2063	1.4017459624618072	2664	1.3919735047730373
261	1.4950099800399201	862	1.437424644321196	1463	1.4149129644063394	2064	1.4014121338912133	2665	1.3920410283043365
262	1.49601593625498	863	1.4375602700096433	1464	1.414602515886396	2065	1.4014986494728587	2666	1.3921085080147966
263	1.4965174129353234	864	1.4357314148681055	1465	1.414754310903669	2066	1.4016029270842407	2667	1.3921759439470611
264	1.493123772102161	865	1.4360019175455416	1466	1.4149060272197018	2067	1.4016893068617207	2668	1.3921416066913053
265	1.4941176470588236	866	1.436272160996646	1467	1.4149501230729369	2068	1.4016357782998348	2669	1.3922204213938412
266	1.4946341463414634	867	1.4363331737673528	1468	1.4149941732487374	2069	1.4016878371324168	2670	1.3921746453326425
267	1.495618305744888	868	1.4361117745402436	1469	1.415145631067961	2070	1.4013375021712697	2671	1.3922140173597617
268	1.495635305528613	869	1.4363809978515159	1470	1.4145900581020012	2071	1.401441472733588	2672	1.3921403599637447
269	1.496124031007752	870	1.436086646036658	1471	1.4146656338755488	2072	1.4012490241998439	2673	1.3920160455486543
270	1.492822966507177	871	1.436354984534856	1472	1.414282031451405	2073	1.4013528748590756	2674	1.3920833063838045
271	1.4933078393881454	872	1.436208125445474	1473	1.4144329896907217	2074	1.4014389736477115	2675	1.392111218881345
272	1.49146110056926	873	1.4362686921433658	1474	1.4145524790727624	2075	1.401473136915078	2676	1.3920770324415148
273	1.4919735599622286	874	1.4364627785680417	1475	1.414596473162569	2076	1.401420036366785	2677	1.3921163166397414
274	1.4929311969839774	875	1.4363162878787878	1476	1.4141829393627954	2077	1.4015236776036706	2678	1.3921834625322997
275	1.4929577464788732	876	1.4360973304984646	1477	1.4143334189571024	2078	1.4016272829568077	2679	1.3922505650629642
276	1.4916201117318435	877	1.4362305148795464	1478	1.4144838212634823	2079	1.401435241224278	2680	1.3921151116273067
277	1.492093023255814	878	1.4364966949952787	1479	1.4146028487103812	2080	1.400966600500561	2681	1.3921935483870969
278	1.4930362116991645	879	1.4367626238791884	1480	1.4142966948501152	2081	1.4010182947877114	2682	1.3921593913211683
279	1.4930619796484736	880	1.43572267920094	1481	1.4143717176892532	2082	1.4011041145518848	2683	1.3921985815602838
280	1.489945155393053	881	1.4358552631578947	1482	1.414247346207955	2083	1.401155770225979	2684	1.3921644435852825
281	1.4904109589041097	882	1.4350269257785062	1483	1.4143222506393862	2084	1.4011898603207449	2685	1.3922313836640041
282	1.490909090909091	883	1.4351591760299625	1484	1.414229148039341	2085	1.4012755321899508	2686	1.392298280636229
283	1.491371480472298	884	1.4349451062835785	1485	1.4139250191277735	2086	1.4013611302549966	2687	1.392337411461687
284	1.4914027149321267	885	1.4351376574895007	1486	1.4140744518103008	2087	1.4014126970453957	2688	1.3917989588019795
285	1.491891891891892	886	1.435401119402985	1487	1.41414913957935	2088	1.400945829750645	2689	1.3918380462724935
286	1.4923766816143498	887	1.435532758218699	1488	1.41363520732638	2089	1.4009973347089675	2690	1.3919049148731129
287	1.4932855863921217	888	1.4349139934913993	1489	1.4137097799821952	2090	1.4009275959804175	2691	1.3918710671632208
288	1.4880847308031775	889	1.4351765799256506	1490	1.4138281647178443	2091	1.4010130494505495	2692	1.3918988316857106
289	1.4881057268722466	890	1.4353678347644465	1491	1.413946399085482	2092	1.4010470305526947	2693	1.3919378650747802
290	1.4885964912280703	891	1.4350243224461432	1492	1.4139900977529516	2093	1.4011323668182207	2694	1.3920046201232033
291	1.489492119089317	892	1.4350844711872253	1493	1.414064483371414	2094	1.4012176299091066	2695	1.3919707561085102
292	1.4895287958115184	893	1.4353458246588018	1494	1.413972359579054	2095	1.4013203017832647	2696	1.3919482018078082
293	1.4899738448125546	894	1.435536044362292	1495	1.41409021794222	2096	1.4012165867032214	2697	1.3920148679825686
294	1.4887543252595157	895	1.4357967667436489	1496	1.4137887413029728	2097	1.4012504282288456	2698	1.392081491447242
295	1.4896373056994818	896	1.4348526703499078	1497	1.4139370178323005	2098	1.401352971399212	2699	1.3921204356181935
296	1.488831615120275	897	1.435042538514601	1498	1.4140546006066734	2099	1.4014042298141964	2700	1.3914850092693218
297	1.488034188034188	898	1.4353022293725581	1499	1.4141286490585112	2100	1.4006489625138758	2701	1.391562799616491
298	1.4889078498293515	899	1.4355616815988974	1500	1.4134106377615328	2101	1.4007513019721676	2702	1.391629392971246
299	1.489778534923339	900	1.4338588074023304	1501	1.4135584677419355	2102	1.4008536064874093	2703	1.3916959437879273
300	1.4861227922624054	901	1.4341173783968943	1502	1.4137062232300328	2103	1.4009558760774943	2704	1.3914985958641817
301	1.4869857262804367	902	1.4343065693430657	1503	1.4137496852178293	2104	1.4009212658875714	2705	1.391576260370134
302	1.487845766974015	903	1.4344953292321714	1504	1.4134808853118712	2105	1.4010234541577826	2706	1.3915316923861751
303	1.4887029288702929	904	1.4343572241183162	1505	1.4135980897323113	2106	1.4006983478112758	2707	1.3915704903398585
304	1.4871155444721529	905	1.434614509893109	1506	1.413715146948003	2107	1.4007321641409842	2708	1.3915981385860905
305	1.4879668049792532	906	1.4348023625624715	1507	1.4138623807132094	2108	1.4006805614632072	2709	1.3915647298674823

306	1.486820428336079	907	1.4349307290483762	1508	1.41377147874075	2109	1.400765306122449	2710	1.391631106298962
307	1.4872427983539094	908	1.43498978897209	1509	1.4139184952978057	2110	1.4008499787505313	2711	1.391669850974398
308	1.4861111111111112	909	1.4350487417819089	1510	1.4140350877192982	2111	1.4009009009009008	2712	1.3915367483296215
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310	1.487408610885459	911	1.4349005424954793	1512	1.412983770287141	2113	1.400356173677069	2714	1.3916417530691432
311	1.4878246753246753	912	1.4339112812429633	1513	1.4131303045431851	2114	1.400440790031364	2715	1.3917079994912882
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313	1.485553772070626	914	1.4344206974128233	1515	1.413393191170969	2116	1.4003216795056295	2717	1.391740787801779
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315	1.4852824184566429	916	1.4346654692411316	1517	1.4135825545171339	2118	1.400507614213198	2719	1.3917460317460317
316	1.485329103885805	917	1.43491921005386	1518	1.4134627348513127	2119	1.4006090340043986	2720	1.3914146217741423
317	1.4857369255150554	918	1.434325352427836	1519	1.413505782862828	2120	1.4004224757076469	2721	1.391491789767324
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319	1.4869976359338062	920	1.4338612536248048	1521	1.4128952262864227	2122	1.4006080054044925	2723	1.3916460670596438
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322	1.485248447204969	923	1.4346179550011138	1524	1.4130246378605917	2125	1.4004214075010535	2726	1.3917062361506807
323	1.486046511627907	924	1.433577289864715	1525	1.413067689642371	2126	1.4005224572343473	2727	1.3916840706284412
324	1.4827321565617806	925	1.4336361621980944	1526	1.4131832797427653	2127	1.4006234729126295	2728	1.39155178955356
325	1.4827850038255548	926	1.4338870431893689	1527	1.4133283877349159	2128	1.4003028773346795	2729	1.3915902624091052
326	1.4835752482811306	927	1.4339455631776943	1528	1.4132690882134915	2129	1.4003533271641289	2730	1.3912384799899002
327	1.4843630816170863	928	1.4334290130271583	1529	1.413414031620535	2130	1.400285738297336	2731	1.391276904626649
328	1.483675018982536	929	1.4335540838852097	1530	1.4128881222276983	2131	1.4003361344537815	2732	1.391304347826087
329	1.4844579226686885	930	1.4332892998678997	1531	1.4129604533694715	2132	1.400285498362583	2733	1.391381159694618
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331	1.4834834834834836	932	1.4334065934065934	1533	1.4131183854294855	2134	1.4003355704697986	2735	1.391534725288589
332	1.4835329341317365	933	1.4336555360281196	1534	1.413233046365761	2135	1.40041928721174	2736	1.391057934508816
333	1.483582089552239	934	1.4339042599912166	1535	1.4133775974425182	2136	1.4002345451499414	2737	1.391123701605288
334	1.4843517138599105	935	1.434086422461066	1536	1.4127100969206232	2137	1.4002847809699306	2738	1.3911511108313928
335	1.4851190476190477	936	1.4327510917030568	1537	1.41285416411137	2138	1.400385227367892	2739	1.3912168113753618
336	1.4812637766348273	937	1.4328749181401441	1538	1.4129981606376456	2139	1.400468776159384	2740	1.3911840533232724
337	1.4816446402349486	938	1.43305713039686	1539	1.4128384172485606	2140	1.400418235048097	2741	1.3912223340040242
338	1.4816983894582723	939	1.4333042720139495	1540	1.4123182207014542	2141	1.4004683840749415	2742	1.3912879502168585
339	1.4824561403508771	940	1.4331085490537308	1541	1.4124618204031765	2142	1.400133600534402	2743	1.3913644648356482
340	1.4814814814814814	941	1.4332318399304045	1542	1.4125763125763127	2143	1.4001836853970109	2744	1.3911459968602826
341	1.482233502538071	942	1.4334129915272649	1543	1.41264802832377	2144	1.4000166847418036	2745	1.3911133425379691
342	1.4812680115273775	943	1.433659066232356	1544	1.412589971940954	2145	1.3999499958329862	2746	1.3911897590361446
343	1.4809489575844716	944	1.4333405592889659	1545	1.4127042184832967	2146	1.4000333222259247	2747	1.391266156355879
344	1.4803149606299213	945	1.4327712926934717	1546	1.4128473915163335	2147	1.4001332666999833	2748	1.3912334608390293
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346	1.4814814814814814	947	1.4330742659758204	1548	1.4125729571984436	2149	1.4001830739785304	2750	1.3911409059582733
347	1.4818505338078292	948	1.4328808446455505	1549	1.4126443768996961	2150	1.400133045069017	2751	1.391206313416009
348	1.4809052333804809	949	1.4331251346112428	1550	1.4125576876366286	2151	1.4001662510390689	2752	1.3910376768056076
349	1.4812720848056538	950	1.4329320722269991	1551	1.4126714407088239	2152	1.4001329345297442	2753	1.3910757869703987
350	1.4803370786516854	951	1.4331757627847013	1552	1.412513641324118	2153	1.4001827697931377	2754	1.390847711927982
351	1.4797202797202798	952	1.4326119562888364	1553	1.4125848690591658	2154	1.4002657365886066	2755	1.3909130679332542
352	1.4777777777777779	953	1.4327335047129393	1554	1.4124697336561742	2155	1.4003653271338425	2756	1.3908806995627732
353	1.4781401804302567	954	1.4325422279238829	1555	1.4126119583635923	2156	1.4001160958620118	2757	1.39095678241319
354	1.4785615491009683	955	1.4327847830733063	1556	1.4126542463101863	2157	1.4002155708481885	2758	1.3910220390834738
355	1.479281767955801	956	1.4328421951740338	1557	1.412696493349456	2158	1.4002983590253606	2759	1.3910980710406393
356	1.4793388429752066	957	1.4330204778156996	1558	1.412809667673716	2159	1.4003977461054027	2760	1.3906649217922353
357	1.4797529169526424	958	1.4332622601279317	1559	1.4128806186563558	2160	1.399421726559273	2761	1.3907408561281076
358	1.4804660726525016	959	1.4335038363171355	1560	1.411970134874759	2161	1.399471336527342	2762	1.390816771540714
359	1.4808219178082191	960	1.4318422726309095	1561	1.412111726462798	2162	1.3995541243497647	2763	1.3908439738399252
360	1.476029709655638	961	1.4318711591438864	1562	1.4122247623631332	2163	1.3996368438428524	2764	1.3908711625879568
361	1.476062036412677	962	1.4320491109229467	1563	1.4123661734632504	2164	1.3996699669966997	2765	1.3909362549800797
362	1.4767676767676767	963	1.4321065989847717	1564	1.412280701754386	2165	1.399769015014024	2766	1.3910013068641485
363	1.4768300873069173	964	1.4321639898562974	1565	1.4124219125420472	2166	1.3997197263209957	2767	1.3910392034847543
364	1.4759679572763684	965	1.4324038867765103	1566	1.4121386589900444	2167	1.399818676337262	2768	1.3909690259982586
365	1.4766666666666666	966	1.4321533923303835	1567	1.4122091628687934	2168	1.399785814317489	2769	1.391034011067587
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